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FIG. 1A

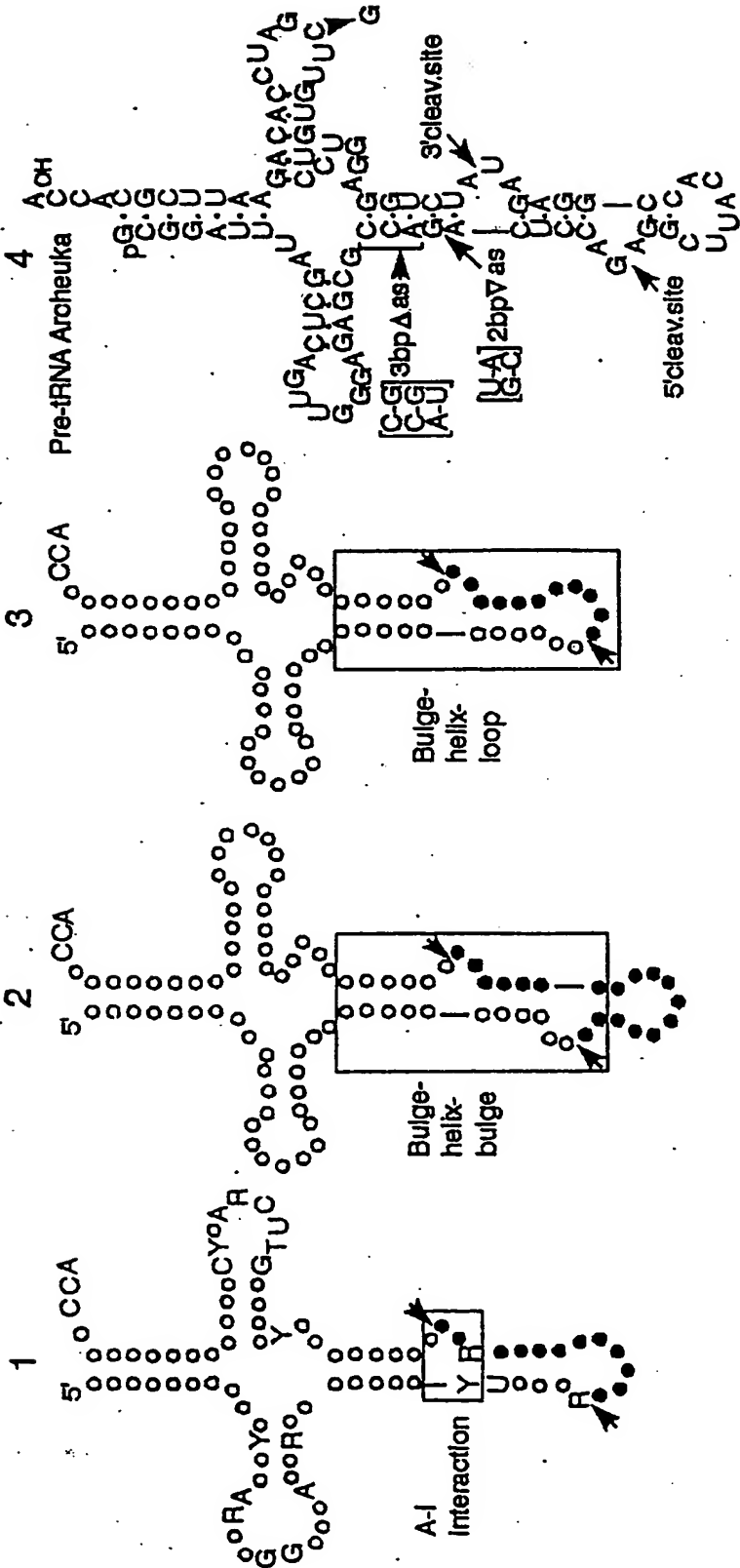


FIG. 1B

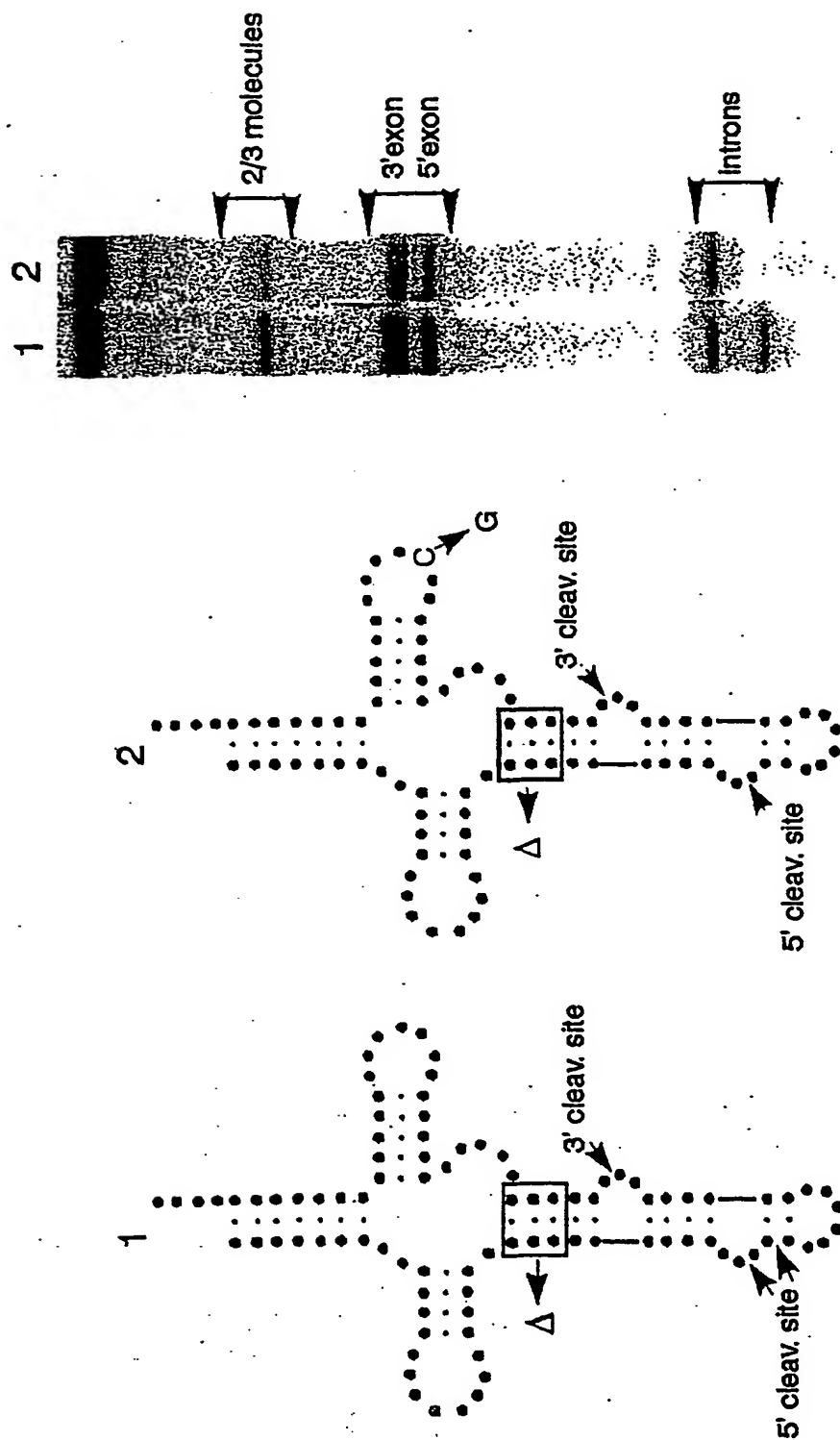


FIG. 2A

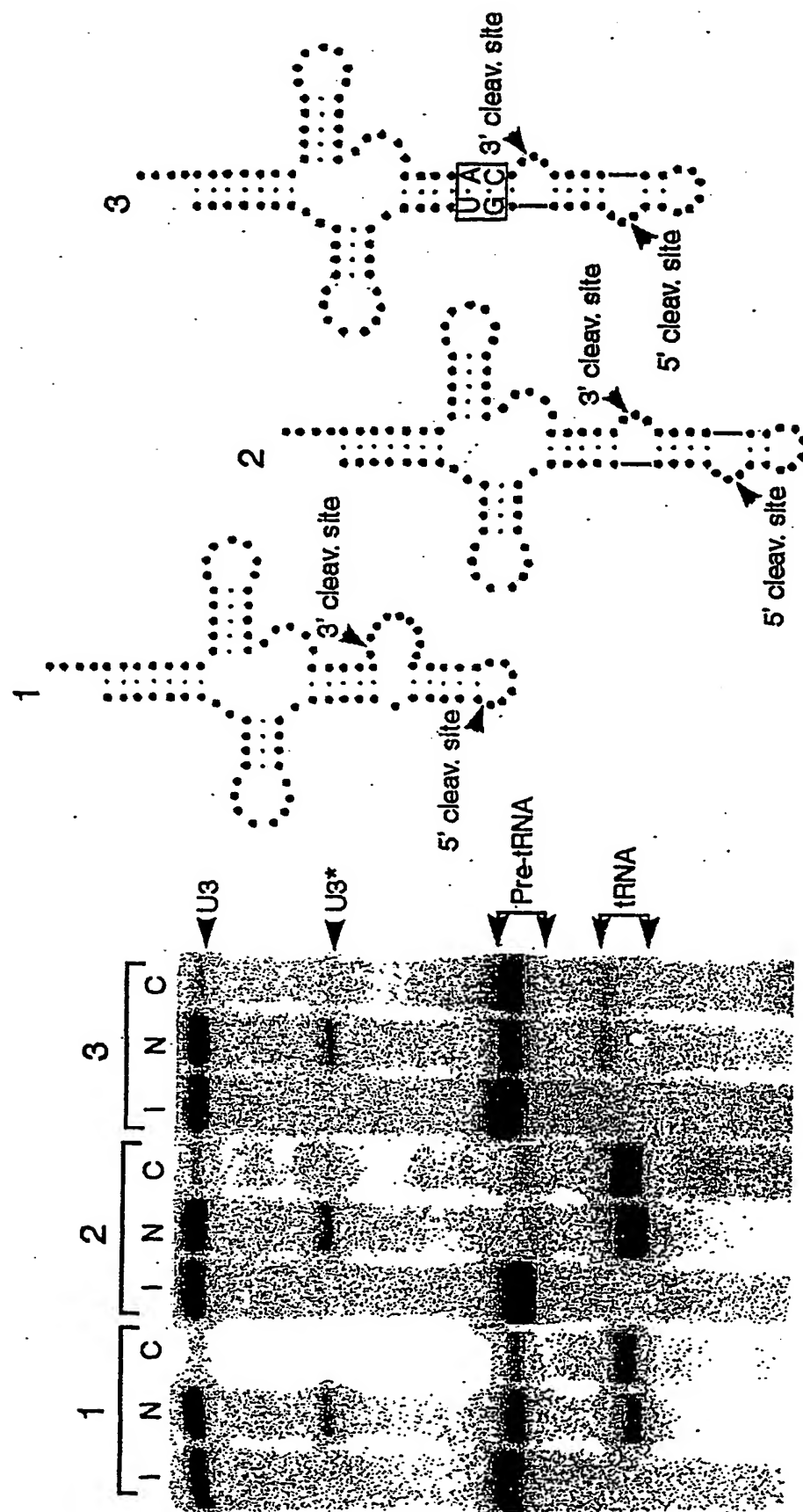


FIG. 2B

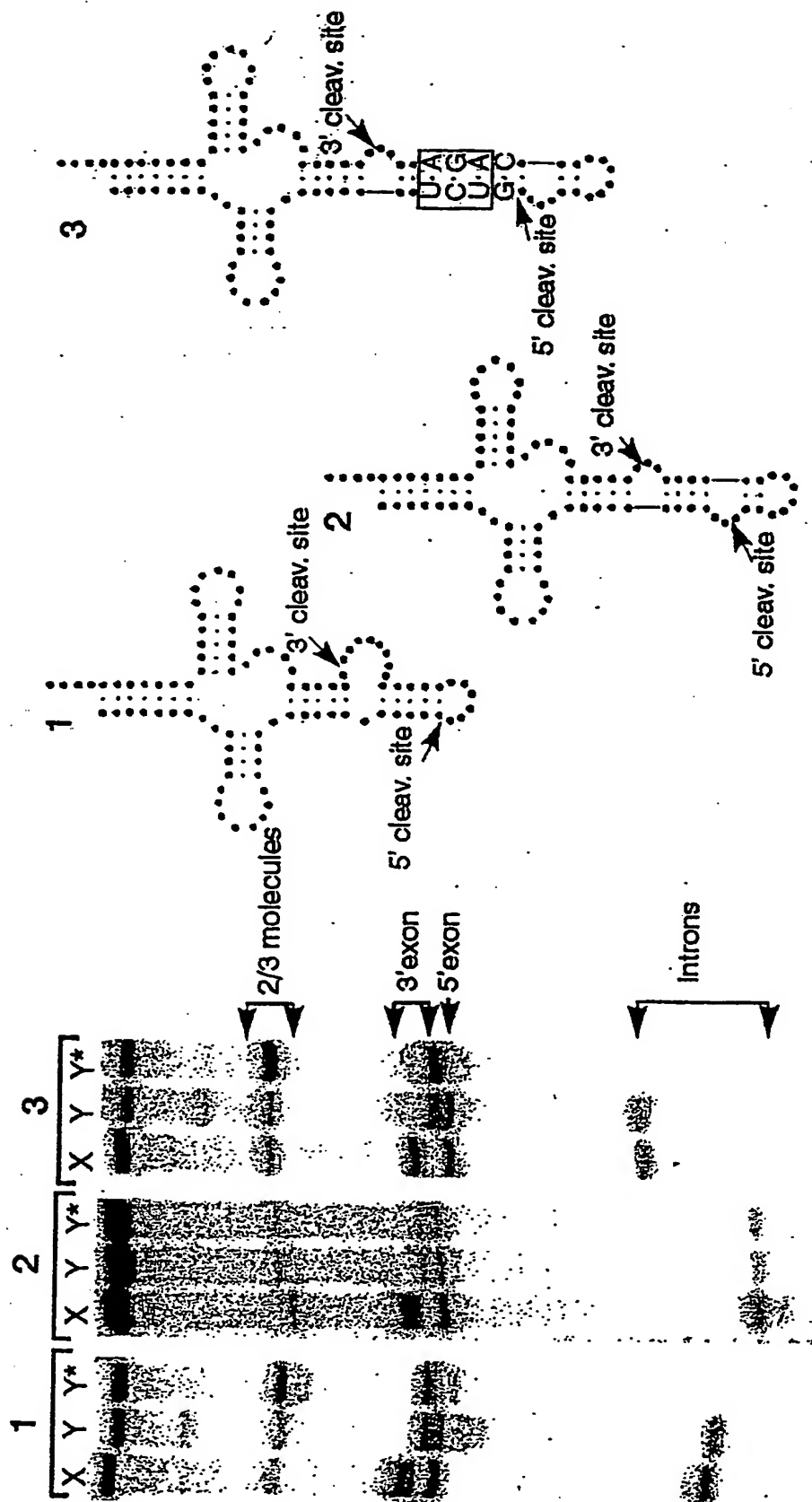


FIG. 2C

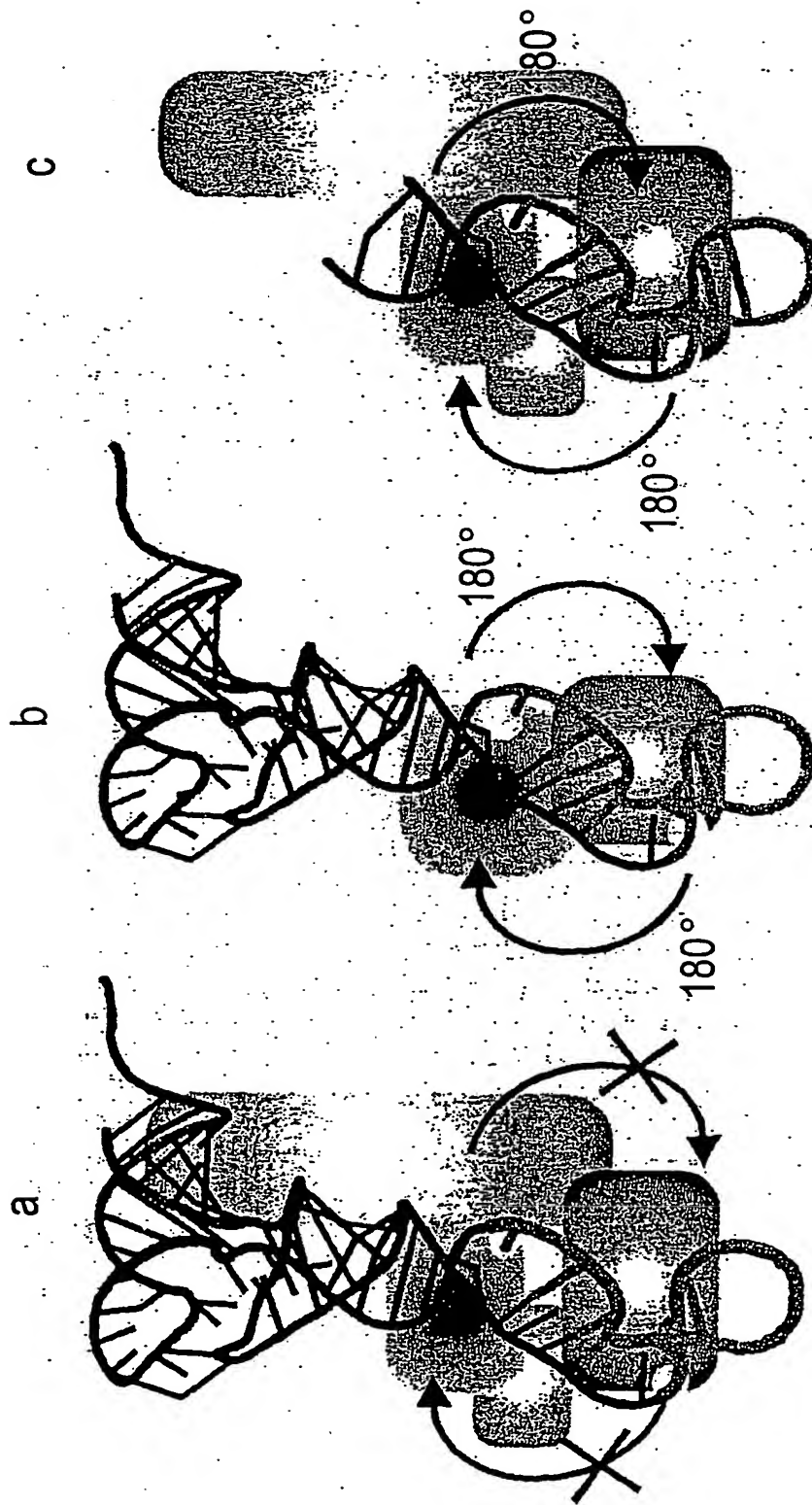
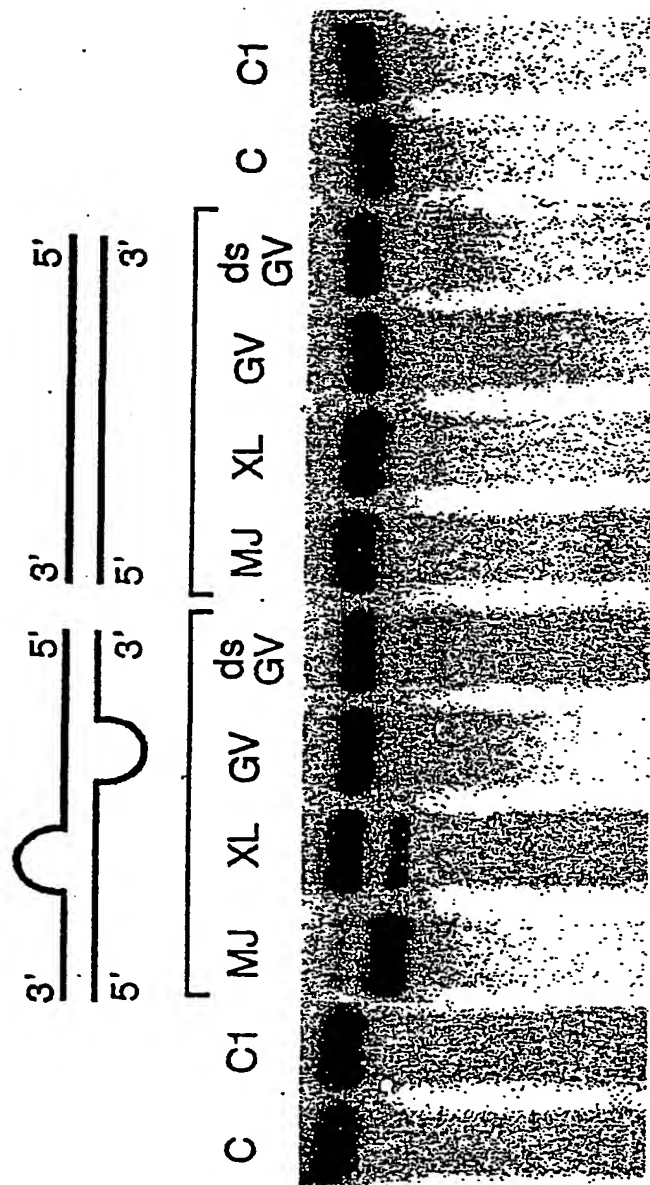


FIG. 3



# BBB MEDIATED TRANS-SPLICING

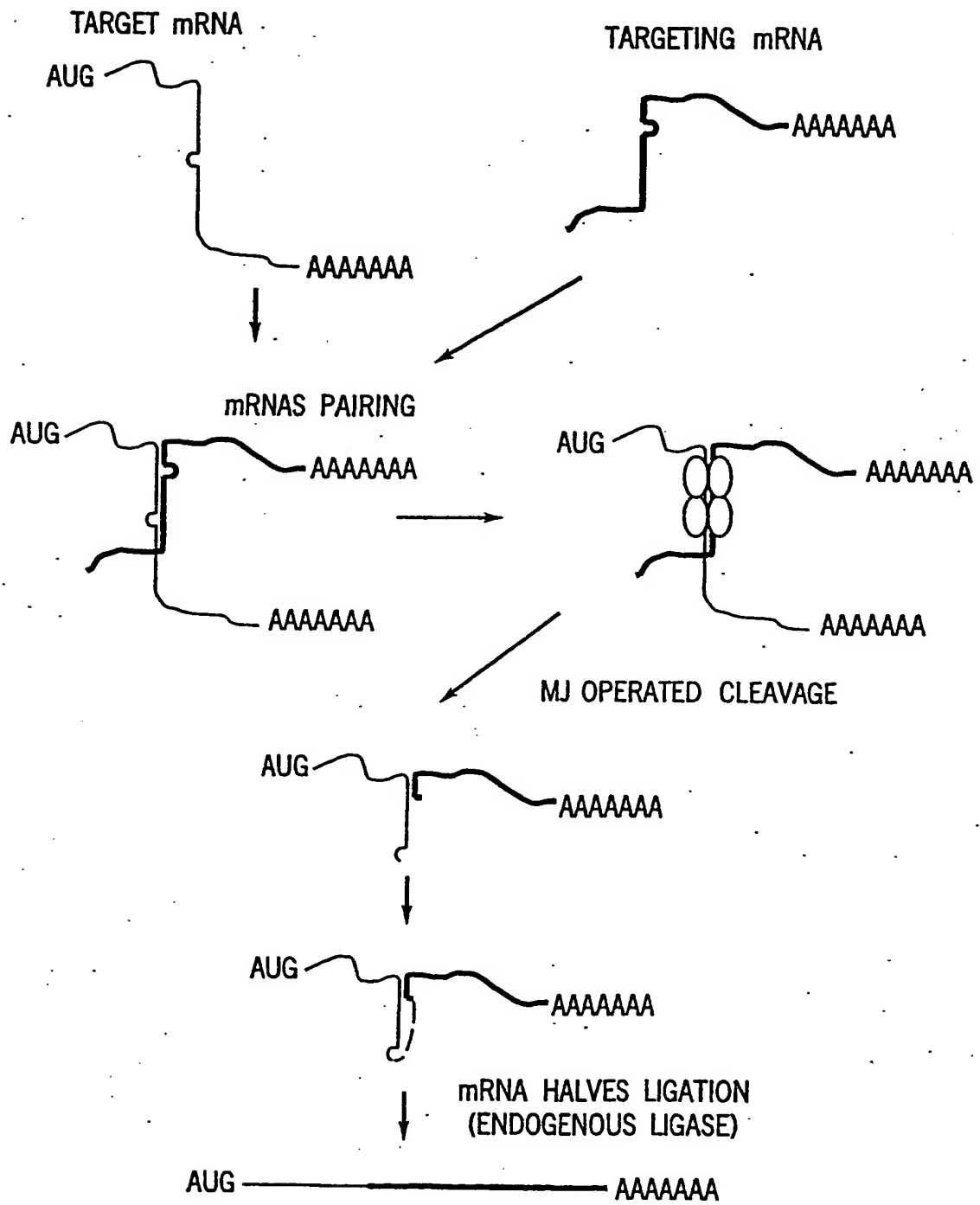


FIG. 4



# BHB tagged mRNAs

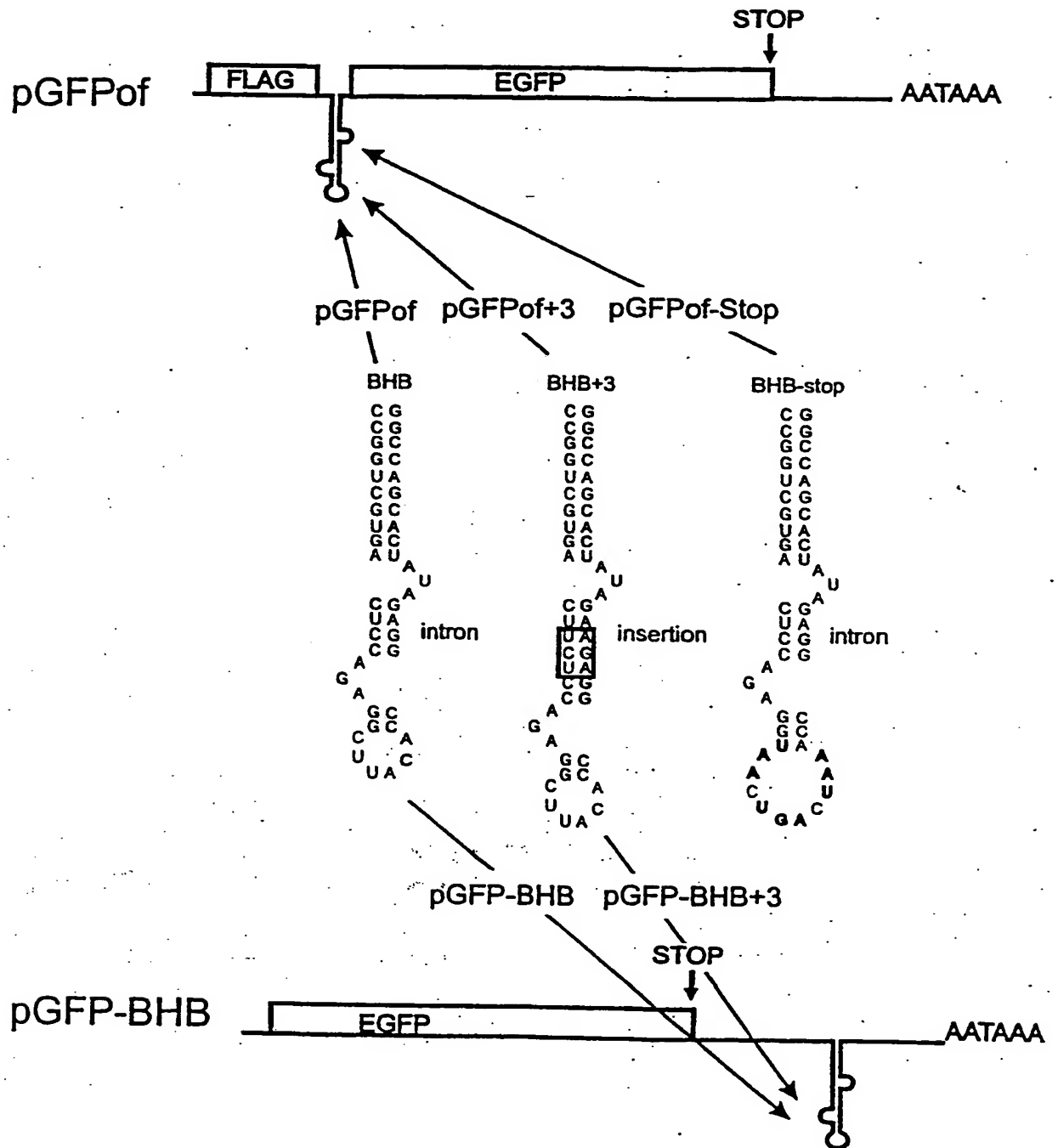


FIG. 5

NIH3T3 Fibroblasts transfected with pGFPof and pMJ

GFP

HOECHST



pEGFP  
+  
pMJ

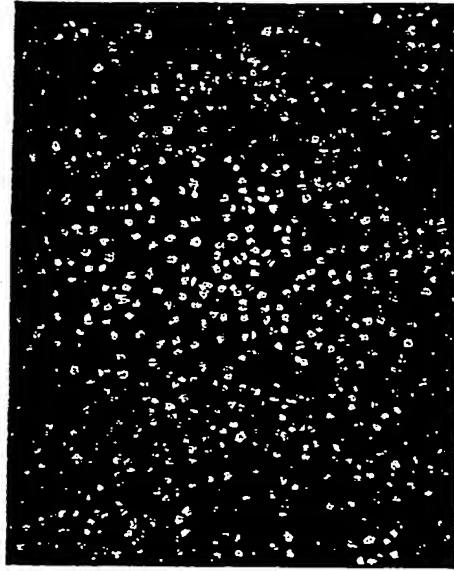


FIG. 6A



pGFPof  
+  
pMJ

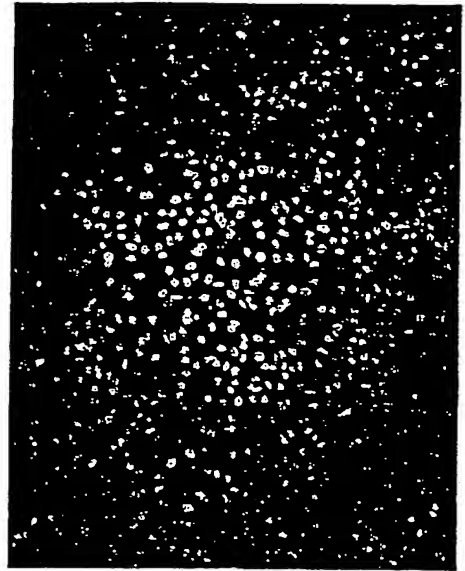
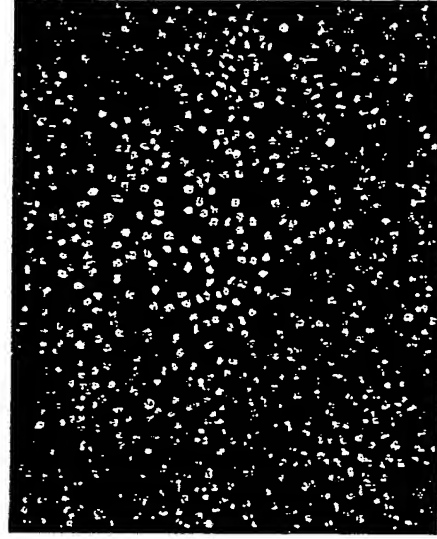


FIG. 6B

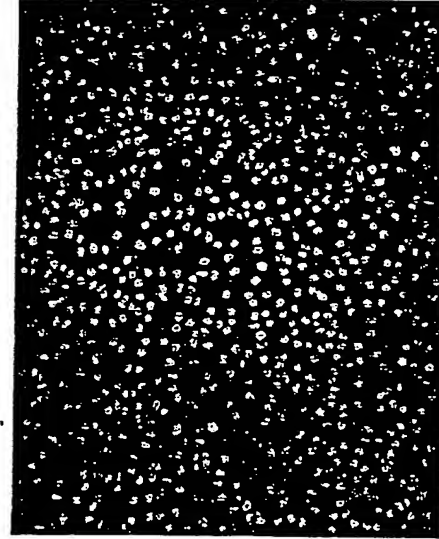
GFP

HOECHST



pGFPof  
+  
pMUT-MJ

FIG. 6C



pGFPof+3  
+  
pMJ

FIG. 6D

# SPLICING ANALYSIS BY RT-PCR

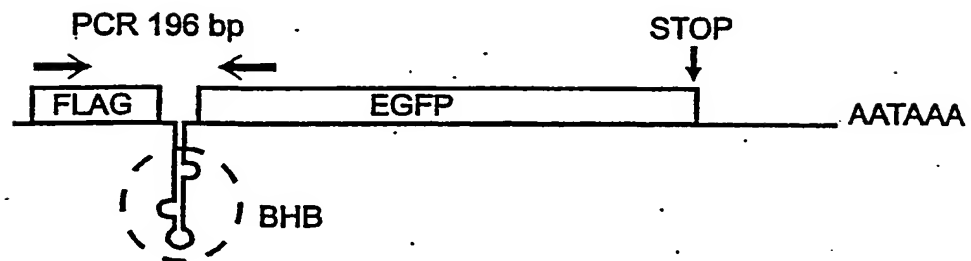


FIG. 7A

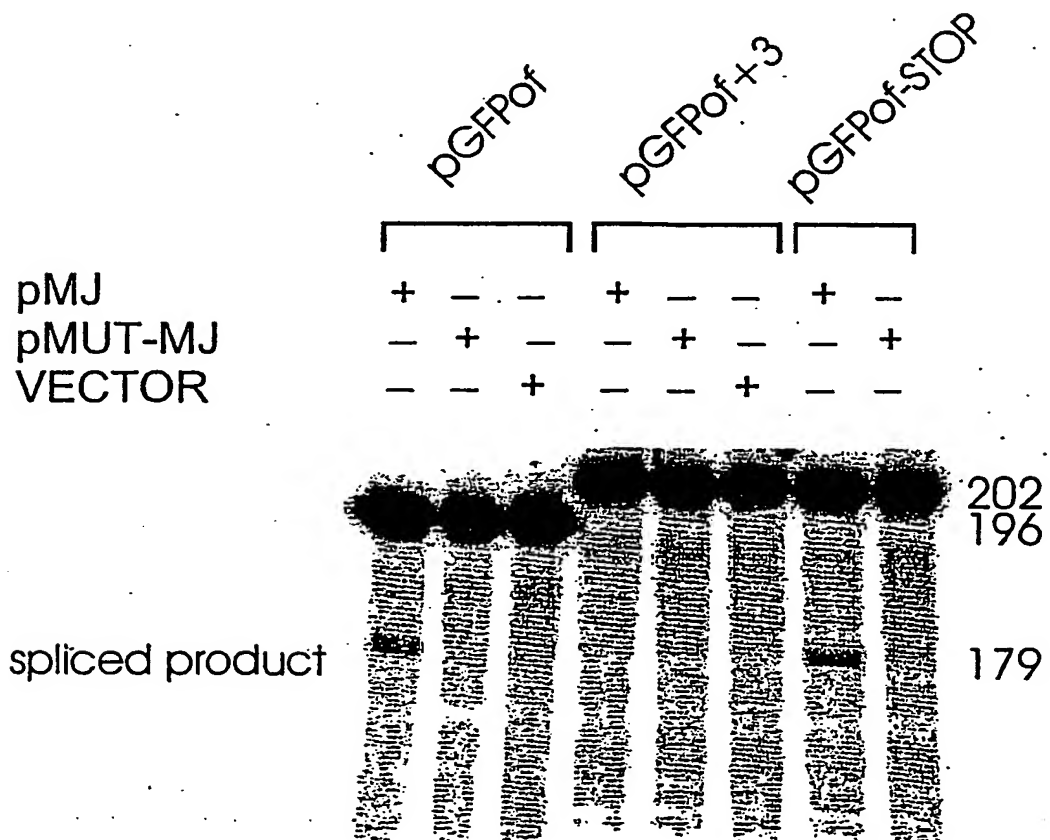


FIG. 7B

# Sequence analysis of GFP of RT-PCR products

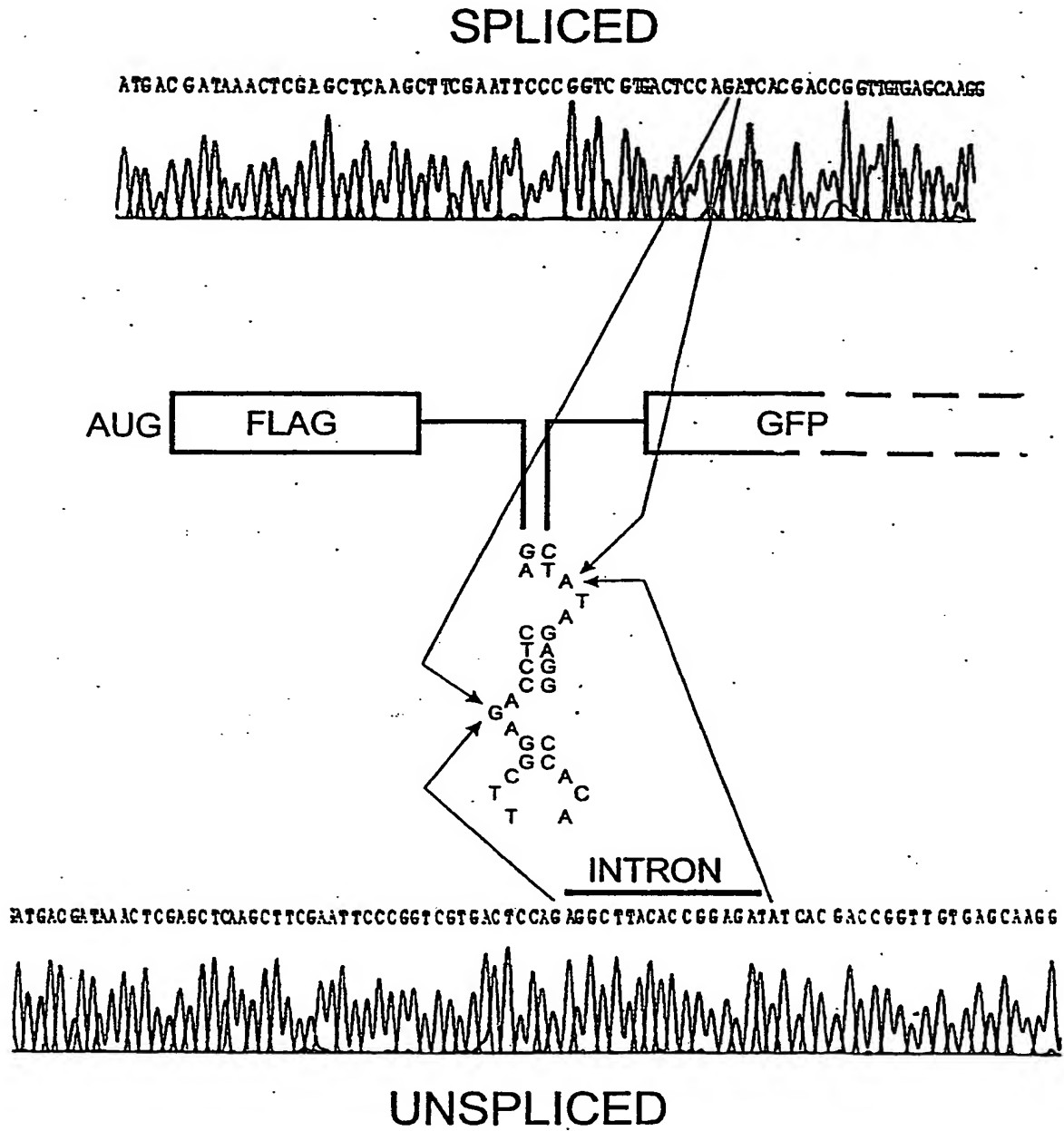


FIG. 8

# Sequence analysis of GFP-BHB RT-PCR products

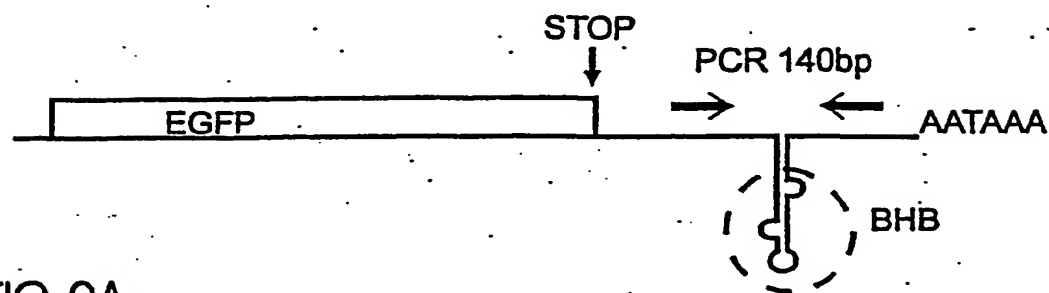


FIG. 9A

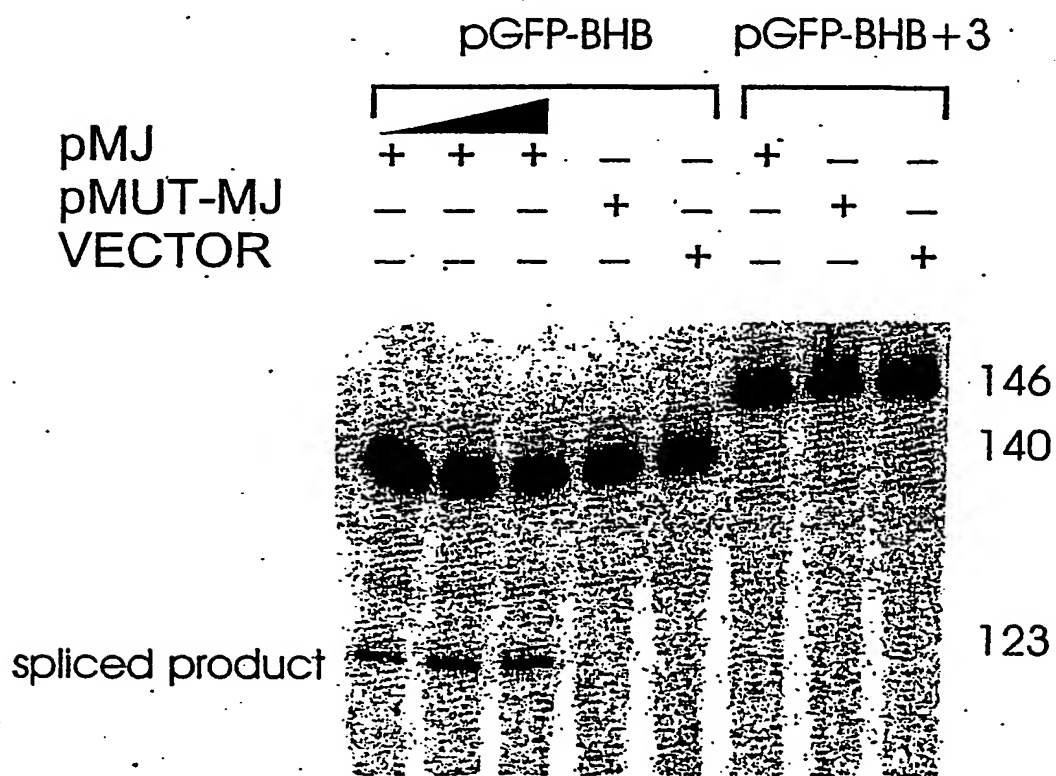


FIG. 9B

Sequence analysis of GFP-BHB RT-PCR products

SPLICED

TCCGTCTGGGCCCCCGTCCCGGTCGTGACTCCAGATCAGACCGG



GFP

AATAAA

GC  
AT

CT  
CG

GA  
GC

CA  
TA

intron

TCCGTCTGGGCCCCCGTCCCGGTCGTGACTCCAGAGGCTTACACCGGAGATATCAGACCGG



UNSPICED

FIG. 10

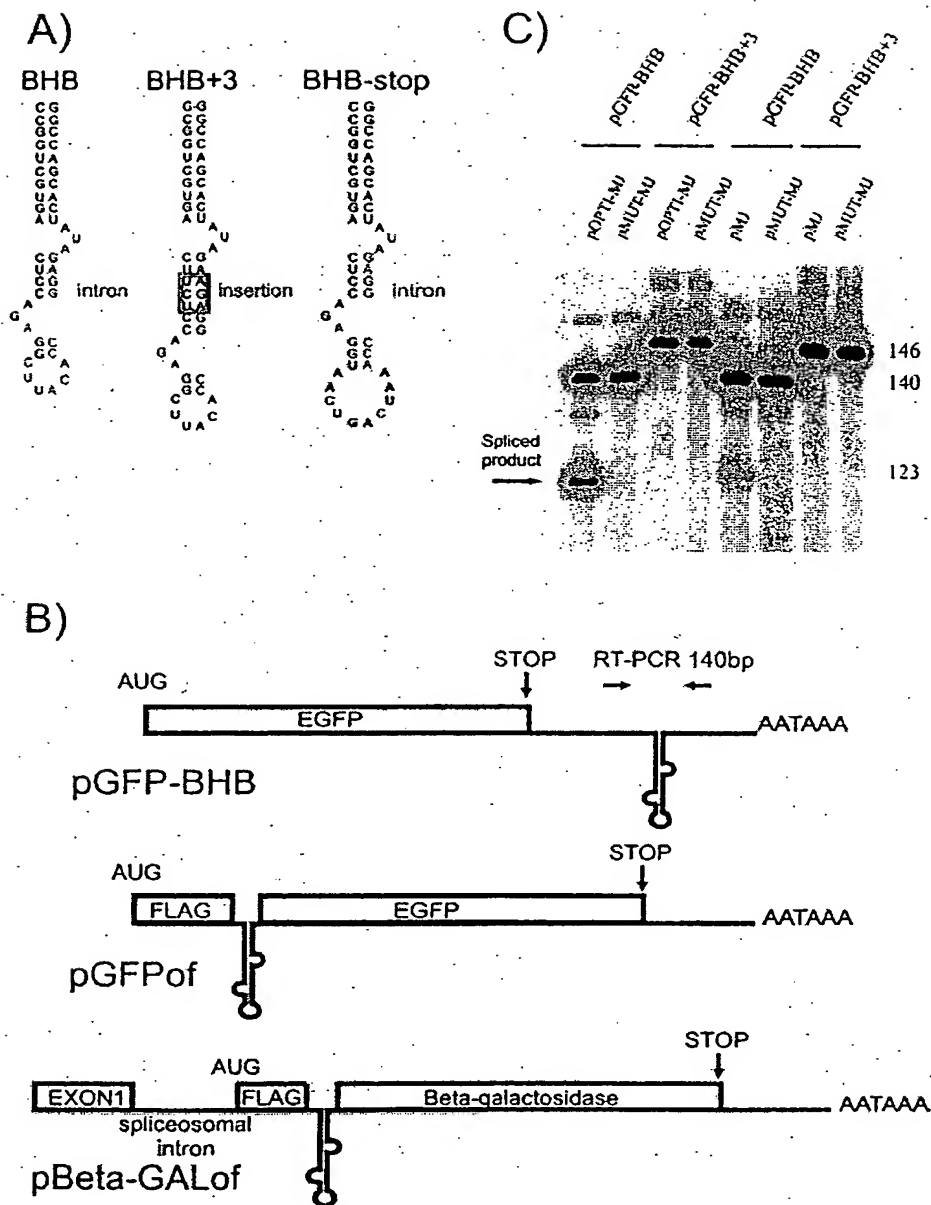


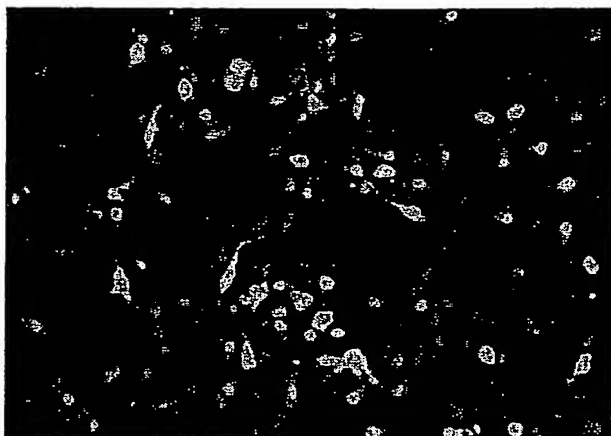
FIG. 11



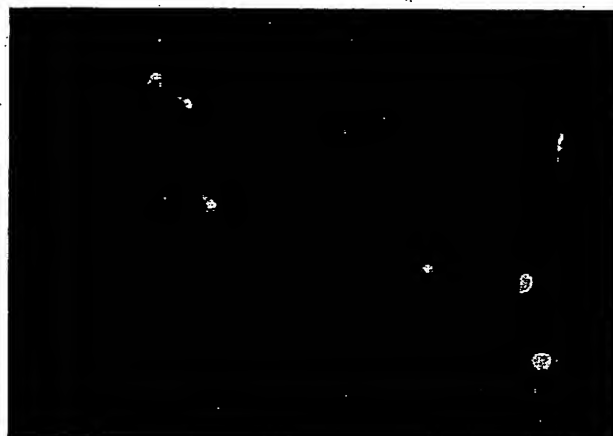
pEGFP-WT

pMJ and pGFPof

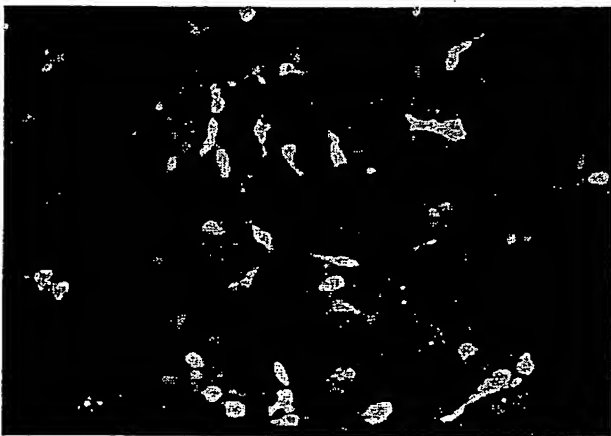
a)



b)



c)



d)



pOPTI-MJ and pGFPof

pMUT-MJ and pGFPof

FIG. 12

## BHB MEDIATED TRANS-SPLICING

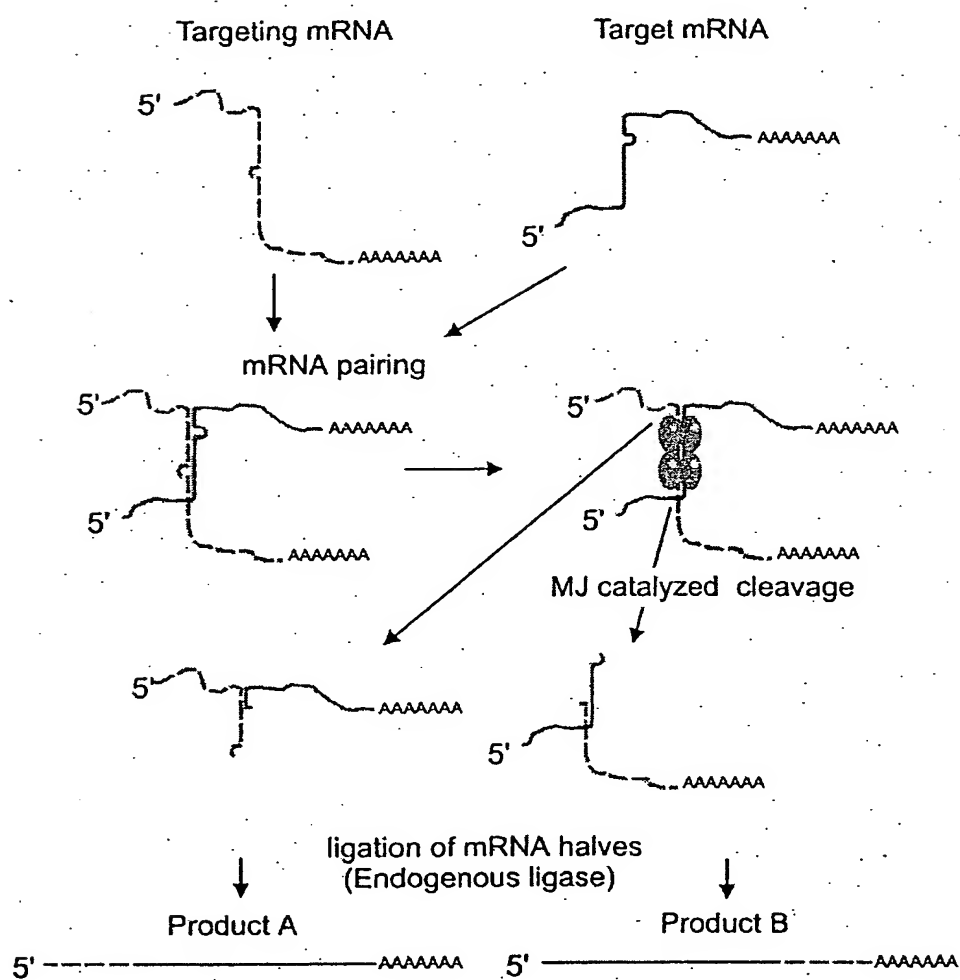


FIG. 13

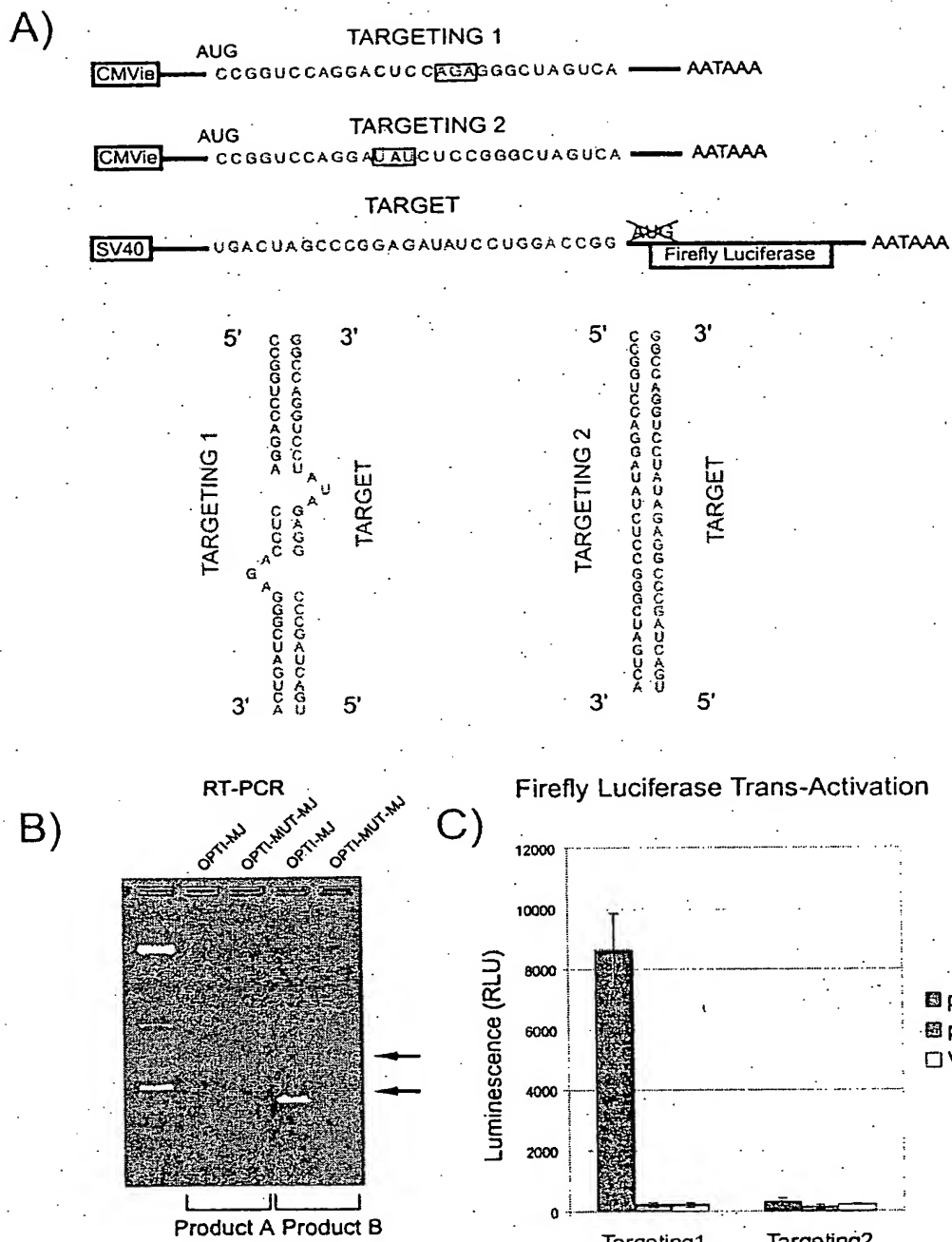


FIG. 14

L - Liver  
 SM- Skeletal Muscle  
 B - Brain  
 S - Spleen  
 K - Kidney  
 H - Heart

WT	Euler Mouse					
<hr/>						
L	SM	B	L	S	K	H SM



A

Control		WT		Euler Mouse	
<hr/>		<hr/>		<hr/>	
L	SM	L	SM	L	SM



B

Fig.15

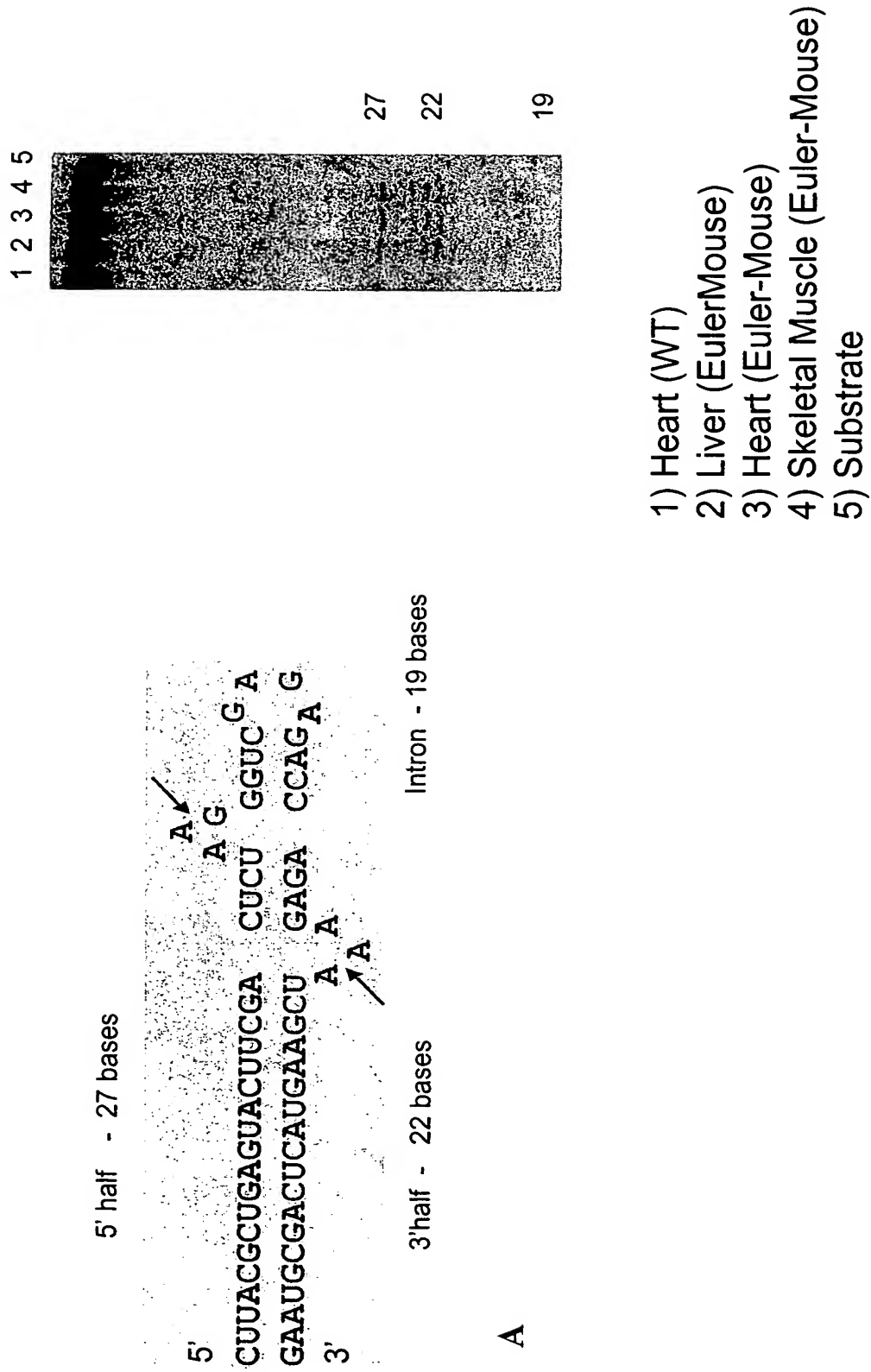


Fig.16

Mouse Liver Transfection by Tail-Vein injection of Naked DNA

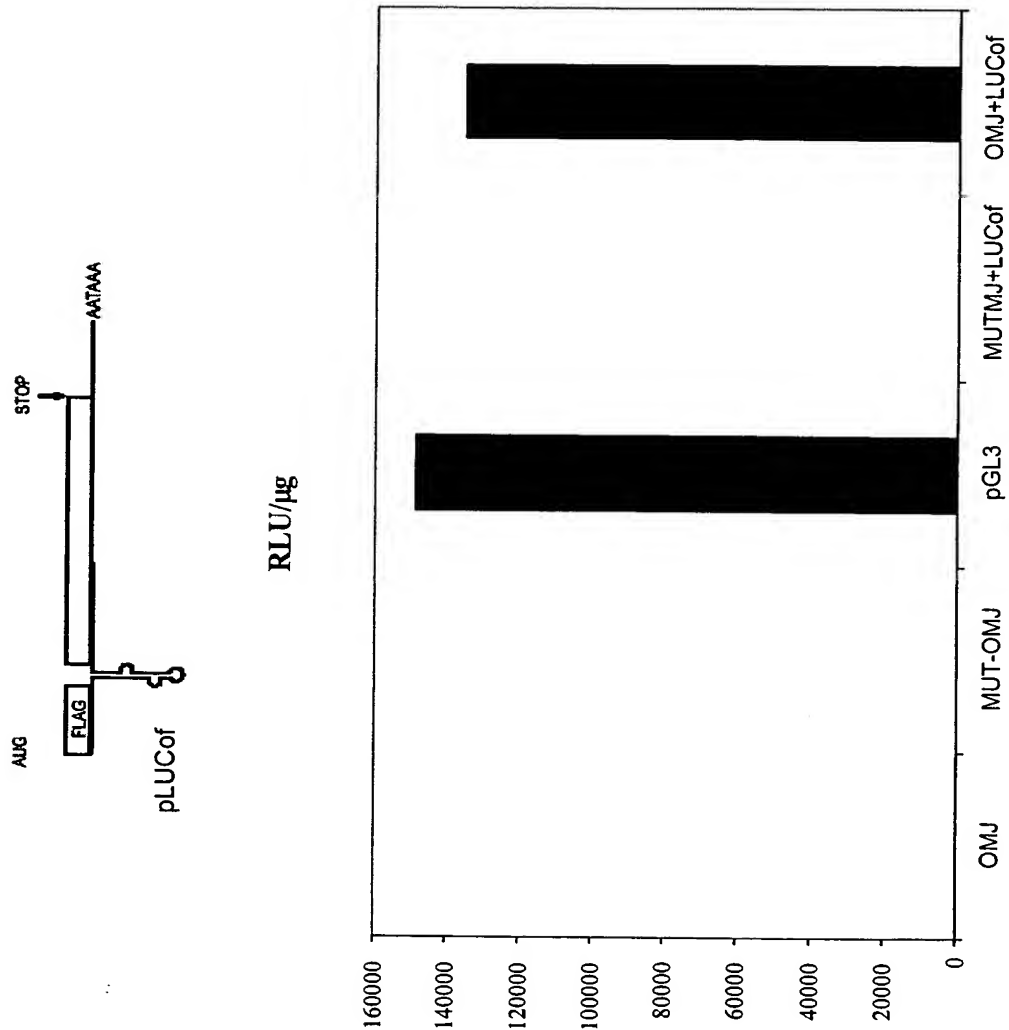


Fig.17